

MAY 29 REC'D

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MAY 30 REC'D

191247

## SEARCH REQUEST FORM Scientific and Technical Information Center - EIC2800

Rev. 1/26/2006 This is an experimental format -- Please give suggestions or comments to Jeff Harrison, JEF-4B68, 22511.

Date 5/23/06 Serial # 10/817,467 Priority Application Date 4/2/04Your Name M. Lewis Examiner # \_\_\_\_\_AU 2822 Phone 202-1838 Room 5A30In what format would you like your results? Paper is the default. ☒ PAPER ☐ DISK ☐ EMAIL

If submitting more than one search request form, please prioritize the searches in order of need.

Where have you searched so far on this case?

Circle: USPT DWPI EPO Abs JPO Abs IBM TDB

Other: \_\_\_\_\_

Need before  
6/7

What relevant art have you found so far? Please attach citations or Information Disclosure Statements.

What types of references would you like? Please checkmark:

Primary Refs ☒ Nonpatent Literature ☐ Teaching Refs ☐  
Secondary Refs ☐ Foreign Patents ☐ Other ☐Is this a "Fast & Focused Search" request? (Circle One) YES ☐ NO ☒A "Fast & Focused Search" is completed in 2-3 hours (maximum). The search must be on a very specific topic and meet certain criteria. The criteria are posted in EIC2800 and on the STIC NPL Web Page at <http://uspto-a-patfr-2/siraapps/stic/npl/nplsearch.htm>

What is the topic, such as the novelty, motivation, utility, or other specific facets defining the desired focus of this search? Please include the concepts, synonyms, keywords, acronyms, registry numbers, definitions, structures, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract and pertinent claims.

Claims 1-16  
Polymer Dielectric  
Memory Interconnect  
Problem: See pages 1-3  
Solution: " " 3&4

US 6,656,763  
6,838,764

## Staff Use Only

Searcher: M.M.msSearcher Phone: 25928Searcher Location: STIC-EIC2800, JEF-4B68Date Searcher Picked Up: 6-5-06Date Completed: 6-6-06Searcher Prep/Rev Time: 310

Online Time: \_\_\_\_\_

## Type of Search

Structure (#) \_\_\_\_\_

Bibliographic ☒

Litigation \_\_\_\_\_

Fulltext \_\_\_\_\_

Patent Family \_\_\_\_\_

Other \_\_\_\_\_

## Vendors

STN ☒

Dialog \_\_\_\_\_

Questel/Orbit \_\_\_\_\_

Lexis-Nexis \_\_\_\_\_

WWW/Internet \_\_\_\_\_

Other \_\_\_\_\_

06/06/2006 10/817467 Lewis

=> d his full

(FILE 'HOME' ENTERED AT 12:05:46 ON 05 JUN 2006)

FILE 'REGISTRY' ENTERED AT 12:06:02 ON 05 JUN 2006

L1	1	SEA	ABB=ON	PLU=ON	16918-34-6/RN
		D	IDE		
L2	1	SEA	ABB=ON	PLU=ON	93134-16-8/RN
		D	IDE		
L3	1	SEA	ABB=ON	PLU=ON	381-67-9/RN
		D	IDE		
L4	1	SEA	ABB=ON	PLU=ON	9002-84-0/RN
		D	IDE		
L5	1	SEA	ABB=ON	PLU=ON	9003-53-6/RN
		D	IDE		
L6	1	SEA	ABB=ON	PLU=ON	136902-52-8/RN
		D	IDE		
L7	1	SEA	ABB=ON	PLU=ON	153629-93-7/RN
		D	IDE		
L8	1	SEA	ABB=ON	PLU=ON	156765-75-2/RN
		D	IDE		
L9	1	SEA	ABB=ON	PLU=ON	417698-61-4
		D	IDE		
L10	1	SEA	ABB=ON	PLU=ON	417698-61-4/RN
		D	IDE		
L11	1	SEA	ABB=ON	PLU=ON	866650-78-4/RN
		D	IDE		
L12	1	SEA	ABB=ON	PLU=ON	866650-79-5/RN
		D	IDE		

FILE 'STNGUIDE' ENTERED AT 13:22:01 ON 05 JUN 2006

FILE 'REGISTRY' ENTERED AT 13:26:05 ON 05 JUN 2006

L13	55054	SEA	ABB=ON	PLU=ON	POLYIMIDE/PCT
L14	10615	SEA	ABB=ON	PLU=ON	FLUOROPOLYMER/PCT
L15	1052	SEA	ABB=ON	PLU=ON	POLYQUINOXALINE/PCT
L16	168	SEA	ABB=ON	PLU=ON	BENZOCYCLOBUTENE
L17	746	SEA	ABB=ON	PLU=ON	POLYPHENYL/PCT
L18	6	SEA	ABB=ON	PLU=ON	POLYSILAZANE
L19	13	SEA	ABB=ON	PLU=ON	PARYLENE
L20	6	SEA	ABB=ON	PLU=ON	POLYQUINOLINE
L21	27	SEA	ABB=ON	PLU=ON	FLUOROMETHACRYLATE
L22	1	SEA	ABB=ON	PLU=ON	25951-90-0/RN
L23	6	SEA	ABB=ON	PLU=ON	POLYQUINOLINE
L24	448	SEA	ABB=ON	PLU=ON	(SILSESQUIOXANE/BI OR SILSESQUIOXANES/BI)
L25	10	SEA	ABB=ON	PLU=ON	POLYACETYLENE
L26	12572	SEA	ABB=ON	PLU=ON	POLYACETYLENE/PCT
L27	1	SEA	ABB=ON	PLU=ON	9003-53-6
L28	1	SEA	ABB=ON	PLU=ON	16918-34-6
L29	1	SEA	ABB=ON	PLU=ON	25013-01-8
L30	1	SEA	ABB=ON	PLU=ON	25067-11-2
L31	1	SEA	ABB=ON	PLU=ON	25067-54-3
L32	1	SEA	ABB=ON	PLU=ON	25212-74-2
L33	1	SEA	ABB=ON	PLU=ON	25233-34-5
L34	1	SEA	ABB=ON	PLU=ON	26797-70-6

EIC 2800 MARY S. MIMS 272-5928

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L35 1 SEA ABB=ON PLU=ON 27290-25-1  
L36 1 SEA ABB=ON PLU=ON 30306-21-9  
L37 1 SEA ABB=ON PLU=ON 30604-81-0  
L38 1 SEA ABB=ON PLU=ON 82451-55-6  
L39 1 SEA ABB=ON PLU=ON 82451-56-7  
L40 1 SEA ABB=ON PLU=ON 126213-51-2

L41 1 SEA ABB=ON PLU=ON 136902-52-8

L42 146 SEA ABB=ON PLU=ON CU.S/MF  
L43 309 SEA ABB=ON PLU=ON CU S/ELF  
L44 155 SEA ABB=ON PLU=ON CU.O/MF  
L45 736 SEA ABB=ON PLU=ON CU O/ELF  
L46 137 SEA ABB=ON PLU=ON CU.SE/MF  
L47 137 SEA ABB=ON PLU=ON CU SE/ELF  
L48 131 SEA ABB=ON PLU=ON CU.TE/MF  
L49 76 SEA ABB=ON PLU=ON CU TE/ELF  
L50 119 SEA ABB=ON PLU=ON MN.O/MF  
L51 573 SEA ABB=ON PLU=ON MN O/ELF  
L52 300 SEA ABB=ON PLU=ON O.TI/MF  
L53 1148 SEA ABB=ON PLU=ON O TI/ELF  
L54 53 SEA ABB=ON PLU=ON IN.O/MF  
L55 249 SEA ABB=ON PLU=ON IN O/ELF  
L56 50 SEA ABB=ON PLU=ON AG.S/MF  
L57 103 SEA ABB=ON PLU=ON AG S/ELF  
L58 14 SEA ABB=ON PLU=ON AU.S/MF  
L59 52 SEA ABB=ON PLU=ON AU S/ELF  
L60 15 SEA ABB=ON PLU=ON AS.CO/MF  
L61 18 SEA ABB=ON PLU=ON AS CO/ELF  
L62 24 SEA ABB=ON PLU=ON AS.NI/MF  
L63 24 SEA ABB=ON PLU=ON AS NI/ELF

FILE 'CAPLUS' ENTERED AT 14:08:42 ON 05 JUN 2006

L64 130319 SEA ABB=ON PLU=ON (L13 OR L14 OR L15 OR L16 OR L17 OR L18 OR  
L19 OR L20 OR L21 OR L22 OR L23 OR L24)

L65 150824 SEA ABB=ON PLU=ON (L25 OR L26 OR L27 OR L28 OR L29 OR L30 OR  
L31 OR L32 OR L33 OR L34 OR L35 OR L36 OR L37 OR L38 OR L39 OR  
L40 OR L41)

L66 249293 SEA ABB=ON PLU=ON (L42 OR L43 OR L44 OR L45 OR L46 OR L47 OR  
L48 OR L49 OR L50 OR L51 OR L52 OR L53 OR L54 OR L55 OR L56 OR  
L57 OR L58 OR L59 OR L60 OR L61 OR L62 OR L63)

L67 606 SEA ABB=ON PLU=ON L64 AND L65 AND L66  
E COEFFICIENT THERMAL EXPANSION/CT

L68 81488 SEA ABB=ON PLU=ON (THERMAL EXPANSION OR "DILATATION" (L)  
"THERMAL" OR "ELONGATION" (L) "THERMAL" OR "THERMAL DILATION"  
OR "GRUNEISEN CONSTANT" OR "SWELLING, PHYSICAL")

L69 4 SEA ABB=ON PLU=ON L67 AND L68  
D IBIB ABS HITSTR 1-4

L70 50558 SEA ABB=ON PLU=ON MEMORY(3W).(CELL OR DEVICE OR ?ARRAY OR  
MATRI?)

L71 3 SEA ABB=ON PLU=ON L67 AND L70

L72 3 SEA ABB=ON PLU=ON L71 NOT L69

D IBIB ABS HITSTR 1-3

L73 803762 SEA ABB=ON PLU=ON SEMICONDUCT? OR WAFER OR IC OR CHIP OR  
MICRO(W)CHIP OR MICROCHIP OR INTEGRATED(W)CIRCUIT OR TRANSISTOR

L74 57 SEA ABB=ON PLU=ON L67 AND L73

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L75 54 SEA ABB=ON PLU=ON L74 NOT (L69 OR L72)  
E DIELECTRIC FILMS/CT

L76 60374 SEA ABB=ON PLU=ON (DIELECTRIC FILMS OR "FILMS" (L) "DIELEC."  
OR "FILM INSULATORS" OR "INSULATOR FILMS")

L77 3 SEA ABB=ON PLU=ON L75 AND L76  
D IBIB ABS HITSTR 1-3

L78 51 SEA ABB=ON PLU=ON L75 NOT L77  
D IBIB 1-51  
D IBIB ABS HITSTR 4,5,8,9,10,11,17,21,23,28,31-33,38-41,45,49

L79 251810 SEA ABB=ON PLU=ON POLYIMIDE OR ?SILSESQUIOXANE? OR BCB OR  
?BENZOCYCLOBUTEN? OR ?PHENYLEN? OR POLYSILAZANE OR ?PHENYLQUINO  
XALIN? OR ?TETRAFLUOROETHYLEN? OR POLYQUINOLINE OR PERFLUOROALK  
OX? OR PARYLENE

L80 110436 SEA ABB=ON PLU=ON ?POLYACETYLENE OR ?ACETYLENE OR ?DIPHENYLAC  
ETYLENE OR ?PHENYLACETYLEN? OR ?DIPYRRYLMETHAN? OR ?BENZOBISTHI  
AZOL? OR ?POLYTHIOPHENE OR ?POLYPYRROL OR ?POLYSILAN? OR  
POLYOTHER OR ?GERMANIUMOXOHEMIPORPHYAZIN?

L81 5505 SEA ABB=ON PLU=ON L79 AND L80

L82 390944 SEA ABB=ON PLU=ON (COPPER OR CU) (W) (S OR SULFIDE OR OXIDE OR  
O2 OR SELENIDE OR TELLURIDE) OR (MANGANESE OR MN) (W) (OXIDE OR  
O) OR TIO2 OR TITANIUM DIOXIDE OR INDIUM OXIDE OR SILVER  
SULFIDE OR GOLD SULFIDE OR IRON OXIDE OR COBALT ARSENIDE OR  
NICKEL ARSENIDE

L83 143 SEA ABB=ON PLU=ON L81 AND L82

L84 0 SEA ABB=ON PLU=ON L83 AND L68

L85 38 SEA ABB=ON PLU=ON L81 AND L68

L86 38 SEA ABB=ON PLU=ON L85 NOT (L69 OR L72 OR L78)

L87 0 SEA ABB=ON PLU=ON L86 AND L70

L88 3 SEA ABB=ON PLU=ON L86 AND L73  
D IBIB ABS HITSTR 1-3

L89 35 SEA ABB=ON PLU=ON L86 NOT L88  
D IBIB ABS 1-35

FILE 'WPIX' ENTERED AT 15:12:00 ON 05 JUN 2006

L90 1831 SEA ABB=ON PLU=ON L79 AND L80

L91 18 SEA ABB=ON PLU=ON L90 AND L68  
D IALL 1-18

FILE 'INSPEC, COMPENDEX' ENTERED AT 15:17:31 ON 05 JUN 2006

L92 1414 SEA ABB=ON PLU=ON L79 AND L80

L93 4 SEA ABB=ON PLU=ON L92 AND L82  
D IALL 1-4

L94 16 SEA ABB=ON PLU=ON L92 AND L68

L95 16 SEA ABB=ON PLU=ON L94 NOT L93  
D IALL 1-16

FILE 'JAPIO, KOREAPAT' ENTERED AT 15:21:42 ON 05 JUN 2006

L96 411 SEA ABB=ON PLU=ON L79 AND L80

L97 2 SEA ABB=ON PLU=ON L96 AND L68  
D IALL 1-2

FILE 'DPCI' ENTERED AT 16:17:17 ON 05 JUN 2006

L98 2 SEA ABB=ON PLU=ON (US6656763 OR US6838764)/PN  
SEL PN.D PN.G

FILE 'WPIX' ENTERED AT 16:18:34 ON 05 JUN 2006

L99 104 SEA ABB=ON PLU=ON (EP699654/PN OR US2002168820/PN OR  
US2002173579/PN OR US2002179900/PN OR WO200243071/PN OR

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WO2003017282/PN OR EP1434232/PN OR JP1230505/PN OR US2001014512  
/PN OR US2001034117/PN OR US2002094651/PN OR US3506438/PN OR  
US3953566/PN OR US3956195/PN OR US3962153/PN OR US4096227/PN  
OR US4368350/PN OR US4482516/PN OR US4561173/PN OR US4599136/PN  
OR US4663270/PN OR US4725562/PN OR US4749621/PN OR US4962058/P  
N OR US5128382/PN OR US5137780/PN OR US5158986/PN OR US5158989/  
PN OR US5173442/PN OR US5227103/PN OR US5324683/PN OR US5334356  
/PN OR US5340843/PN OR US5408742/PN OR US5438539/PN OR  
US5449427/PN OR US5470693/PN OR US5470802/PN OR US5473814/PN  
OR US5480048/PN OR US5486493/PN OR US5510645/PN OR US5548159/PN  
OR US5552638/PN OR US5554305/PN OR US5589692/PN OR US5591676/P  
N OR US5593926/PN OR US5747880/PN OR US5780121/PN OR US5785787/  
PN OR US5786630/PN OR US5798200/PN OR US5804607/PN OR US5821621  
/PN OR US5830923/PN OR US5841075/PN OR US5844317/PN OR  
US5864923/PN OR US5878314/PN OR US5879787/PN OR US5879794/PN  
OR US5891797/PN OR US5912313/PN OR US5923074/PN OR US5926732/PN  
OR US5953626/PN OR US5994777/PN OR US6037245/PN OR US6037249/P  
N OR US6040628/PN OR US6043146/PN OR US6055180/PN OR US6071600/  
PN OR US6077792/PN OR US6130140/PN OR US6165890/PN OR US6172305  
/PN OR US6195156/PN OR US6208553/PN OR US6212093/PN OR  
US6245658/PN OR US6265303/PN OR US6268637/PN OR US6272038/PN  
OR US6313518/PN OR US6314019/PN OR US6320200/PN OR US6323125/PN  
OR US6324091/PN OR US6331480/PN OR US6342454/PN OR US6348700/P  
N OR US6352818/PN OR US6380294/PN OR US6413827/PN OR US6420261/  
PN OR US6420262/PN OR US6420441/PN OR US6433413/PN OR US6503818  
/PN OR US6524944/PN OR US6770905/PN OR US6855977/PN OR  
US6893895/PN OR US6995312/PN OR US7015504/PN OR WO2006007525/PN  
)

L100 6 SEA ABB=ON PLU=ON L90 AND L99  
L101 0 SEA ABB=ON PLU=ON L99 AND L68  
D L100 IFULL 1-6  
D L91 4,16 IFULL